822-2189-101 | GPS-4000S - Collins Aerospace

October 21, 2024

Features:

Enables GPS-based approaches for aircraft equipped with flight management systems.
Utilizes up to 10 GPS satellites.
Fully integrated with Rockwell Collins Pro Line 4™ and Pro Line 21™ systems.
Provides terminal and en route navigation solutions.
Streamlines preflight procedures by removing the need for pre-flight prediction of Receiver Autonomous Integrity Monitoring (RAIM) availability along U.S. RNAV routes.
Supports non-precision approach navigation.
Offers primary means GPS navigation in areas covered by SBAS, including oceanic and remote regions.
Supports RAIM, Predictive RAIM, and Fault Detection and Exclusion (FDE).
Capable of on-board loading of application software.
Physically interchangeable with the GPS-4000 and GPS-4000A models.
Features a 12-channel, SBAS-enabled GPS receiver compliant with TSO C145A.
Conforms to 2 MCU size standard and ARINC 743A.
Qualified per DO-160D standards.
Complies with RTCA DO-229, supporting EGNOS in Europe and MSAS in Japan.

Specifications:

Dimensions:
Height: 200.0 mm (7.87 in) max.
Width: 61.7 mm (2.43 in) max.
Length: 368.8 mm (14.52 in) max.
Weight: 6.3 lbs.
Operating Temperature: -50°C to +70°C.
Altitude Capability: 55,000 ft.
Cooling: Not required.
Certification: FAA TSO C145 Class Beta-3, EUROCAE ED-14C.

822-2189-001: Global Positioning Receiver capable of receiving Satellite Based Augmentation System (SBAS) signals.
822-2189-002: GPS system with SBAS signals and GNSS data load capabilities.
822-2189-003: GPS used in a Satellite-Based Precision Navigation System.
822-2189-004: GPS with software updated in the GNSS module to improve satellite processing.
822-2189-005: GPS with GNSS software update for enhanced satellite processing, including improved EGNOS GEO tracking and acquisition.

822-2189-100: Form, fit, and function equivalent replacement for GPS-4000S, with GNSS Circuit Card Assembly updated to address component obsolescence.
822-2189-101: GNSS software update for CPN-001, enhancing position accuracy and availability by applying UTC parameters and SBAS ionospheric corrections.

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